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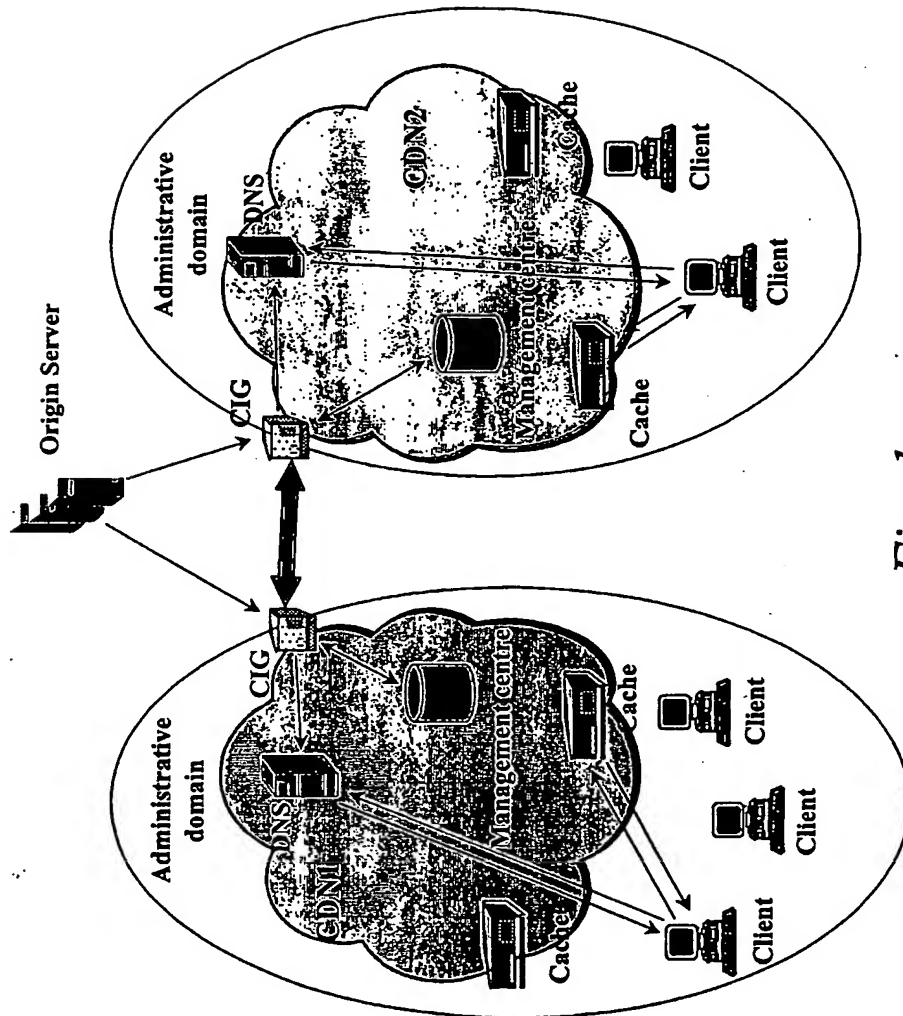


Fig. 1

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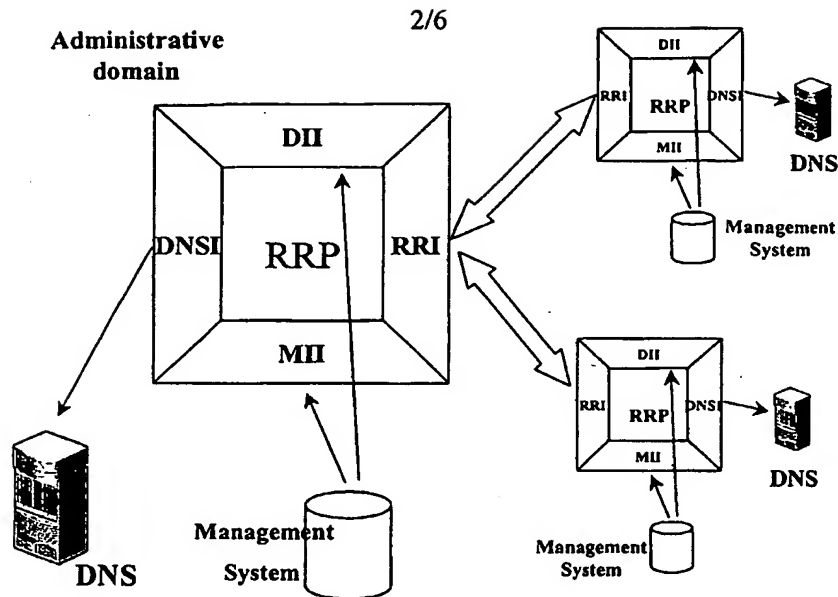


Fig. 2

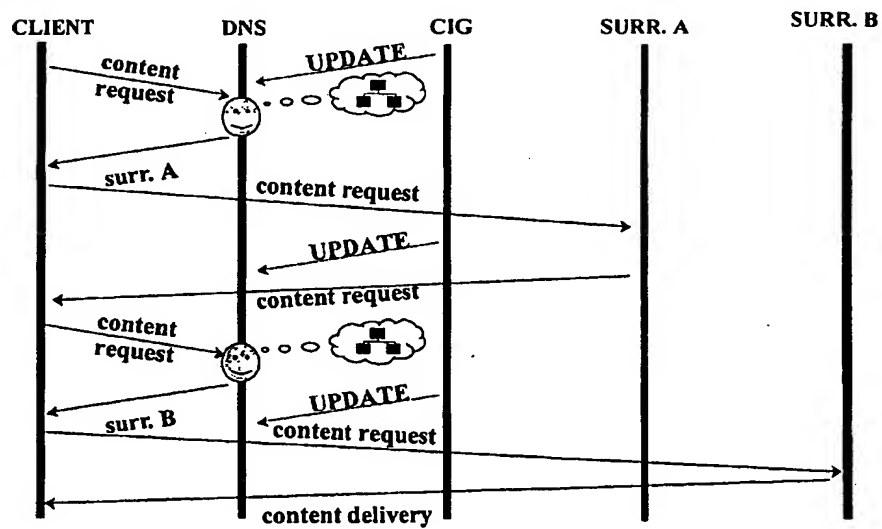


Fig. 3

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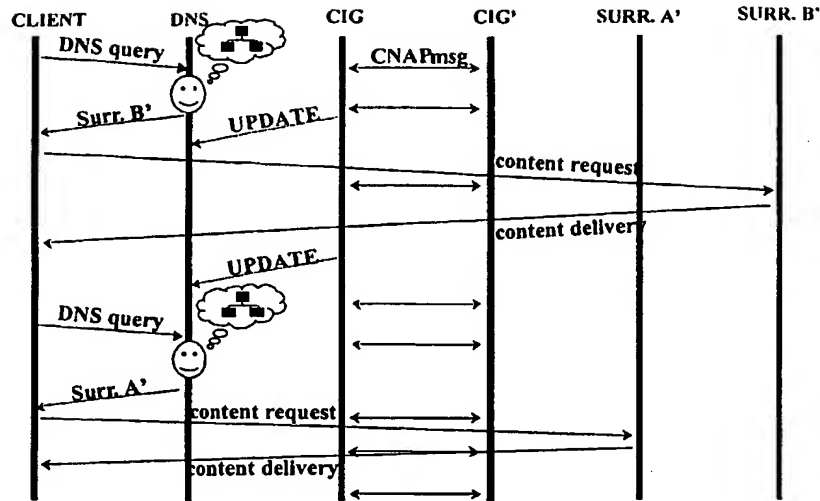


Fig. 4

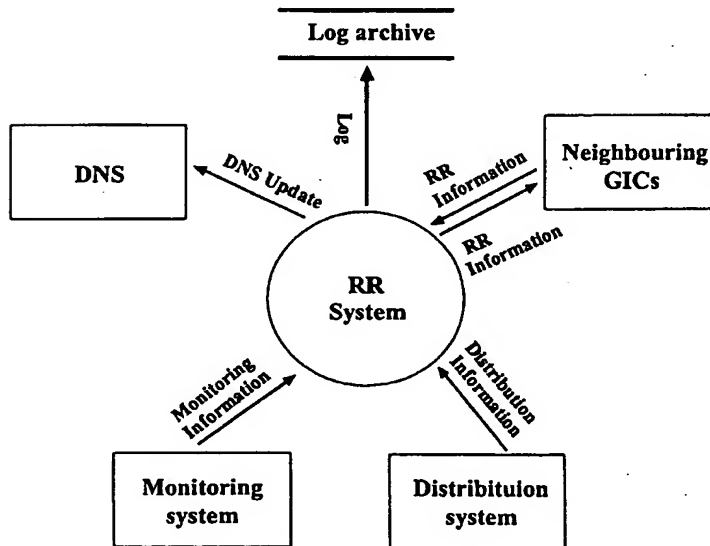


Fig. 5

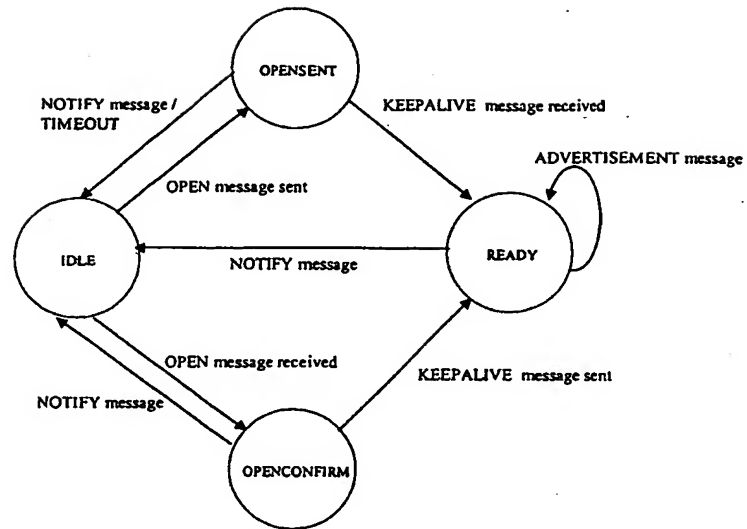
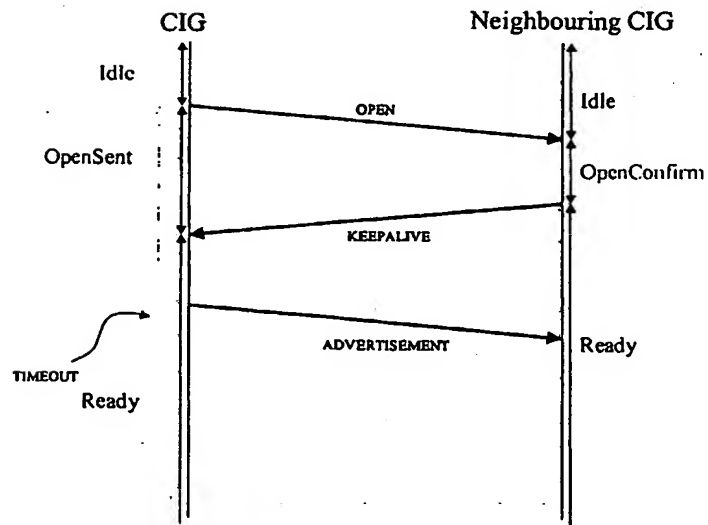
The diagram illustrates the RRP (Routing and Registration Protocol) architecture. At the center is a circle labeled **RRP**. It is connected to several external components:

- Log archive**: A box at the top connected to the RRP by a double-headed arrow labeled **Log**.
- DNS**: A box at the top left connected to the RRP via a circle labeled **DNSI**. The connection from RRP to DNSI is labeled **Best surrogate**, and the connection from DNSI to DNS is labeled **DNS Update**.
- Neighbouring CIGs**: A box at the top right connected to the RRP via a circle labeled **RR1**. The connection from RRP to RR1 is labeled **RR Information**. The connection from RR1 to Neighbouring CIGs is labeled **CNAP messages**, and the connection from Neighbouring CIGs to RR1 is also labeled **CNAP messages**.
- Monitoring system**: A box at the bottom left connected to the RRP via a circle labeled **MII**. The connection from RRP to MII is labeled **Cache state**, and the connection from Monitoring system to MII is labeled **Monitoring Information**.
- Distribution system**: A box at the bottom right connected to the RRP via a circle labeled **DII**. The connection from RRP to DII is labeled **Content state**, and the connection from Distribution system to DII is labeled **Distribution Information**.

The diagram illustrates the Log Cache Architecture. It features a central 'Log archive' at the top, which receives 'Log messages' from the 'Generate log messages' component. The 'Generate log messages' component is connected to a 'DNS messages' component, which in turn sends 'RR information' and 'Format data' to the 'Log archive'. The 'DNS messages' component also sends 'Messages' to the 'Assess information and update data structure' component. The 'Assess information and update data structure' component sends 'Cache state' and 'Content state' to the 'Expand data' component. The 'Expand data' component sends 'RR information', 'Cache state', and 'Content state' back to the 'Assess information and update data structure' component. The 'Assess information and update data structure' component also sends 'Messages' to the 'Generate log messages' component.

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*Fig. 8**Fig. 9*

URL
IP
CNAS ID
CACHE STATE
CONTENT STATE
TTL

Fig. 10

IP
CPU
MEM
DISC
USERS

Fig. 11

URL
CACHE
CONF. LEVEL
CONT. AVAIL.
CACHE STATE
TTL

Fig. 12

OP
REG. TYPE
DOMAIN NAME
IP
TTL

Fig. 13